

**DUTY STATEMENT**

CEC-004 (Revised 04/16)

CALIFORNIA ENERGY COMMISSION

<b>Classification:</b> Senior Mechanical Engineer	<b>Position No.</b> 410-3579-002
<b>CBID:</b> R09	<b>Office:</b> Appliances & Outreach & Education
<b>Date Prepared:</b> July 29, 2016	<b>Division:</b> Efficiency
<b>KEY: (E) IS ESSENTIAL, (M) IS MARGINAL</b>	

The Senior Mechanical Engineer is under the general direction of the Energy Resource Specialist III (Managerial) in the Appliances and Outreach and Education Office of the Efficiency Division. The Senior Mechanical Engineer is responsible for the most complex and difficult work related to mechanical engineering analysis and reviews and guides the work of mechanical engineers, including those employed and under contract to the Commission, and provides expert mechanical engineering consultation to management, commissioners, and technical staff working on mechanical engineering related issues. The incumbent provides mechanical engineering leadership, review of mechanical engineering work, and collaboration with mechanical engineering experts that are responsible for testing, design compliance, and appliance research, and standards development to implement the Commission's appliance efficiency program.

**WORKING CONDITIONS.** The work is performed primarily in an office, conference room and hearing room environment. It may require standing and walking, as well as sitting for long periods of time. Some travel is required to attend off-site meetings or participate in conferences, workshops and hearings. Additional hours beyond an eight hour workday or 40-hour workweek may be required. While performing the duties described below, the incumbent will be required to work alone and/or in a team environment, using a personal computer and appropriate Energy Commission software such as word processing, electronic mail, WebEx and Internet browsers.

**DUTIES AND RESPONSIBILITIES:**

- 35% Plan, organize, and provide high level engineering technical leadership, direction and coordination for mechanical engineering analysis conducted to develop and implement new appliance efficiency standards for mechanical systems such as heating, ventilation, and air-conditioning (HVAC) equipment. Develop design and performance standards for appliance energy and water efficiency. Maintain expert knowledge and participate in related U.S. Department of Energy efficiency standards for commercial and non-commercial appliances. Collaborate with the American Society of Heating, Refrigerating, and Air-Conditioning Engineers (ASHRAE), American National Standards Institute (ANSI), IEEE, Canadian Standards Association (CSA), and other standards associations for appliances to implement energy saving strategies for California. Maintain expert knowledge and leadership for appliance rulemakings to maintain and create state efficiency standards. Maintain expert and ongoing knowledge in all aspects of appliances science related to energy and water efficiency research and development, emerging technologies, test procedures, modeling, standards development, and market transformation programs. (E)
- 25% Plan, organize, and provide high level engineering technical leadership, direction, and coordination for mechanical engineering analysis conducted to implement and develop federal efficiency standards, contracts, program milestones, and project schedules.

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Organize and identify necessary engineering work for the program, including changes to the appliance standards, technical support for federal standards or state contracts, and participation in federal rulemakings. Coordinate with the Building Standards Office on mechanical system improvements in new construction. (E)

- 20% Serve as the State's lead engineering representative performing the most difficult and complex work related to mechanical engineering analysis to advance the Commission's appliances program. Prepare technical responses for issues related to appliance standards. Lead engineering staff in analyzing and solving complex and difficult engineering problems. Provide quality review of the engineering work of staff and the review of the engineering analyses submitted by parties to rulemaking activities regarding the Appliance Efficiency Standards. (E)
- 10% Prepare and present engineering recommendations to management, commissioners, and the public related to appliance efficiency to aid policy decisions. (E)
- 5% Prepare and testify on request at Commission workshops or hearings or on behalf of the Commission before legislative bodies, governmental entities, and agencies on engineering findings related to energy efficiency measures, costs and benefits. (E)
- 5% Perform other duties as required consistent with the specifications of this classification. (M)

<b>SIGNATURES</b>	
<b>I Certify That I Am Able To Perform, With Or Without The Assistance Of A Reasonable Accommodation, The Essential Job Duties Of This Position</b>	
<div style="border-bottom: 1px solid black; display: flex; justify-content: space-between; margin-bottom: 5px;"> <span><b>Vacant</b></span> <span>Date</span> </div> Senior Mechanical Engineer	<div style="border-bottom: 1px solid black; display: flex; justify-content: space-between; margin-bottom: 5px;"> <span><b>Kristen Driskell</b></span> <span>Date</span> </div> Energy Resource Specialist III (Managerial)